

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: G2-1902-155-55

Luminaire Tested: **G8-W-PC-450-6500**

Test Date: 03/11/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-55
Test Lab: INNOVATION CENTER(G2)
Test Date: 03/11/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-W-PC-450-6500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.5, 6500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

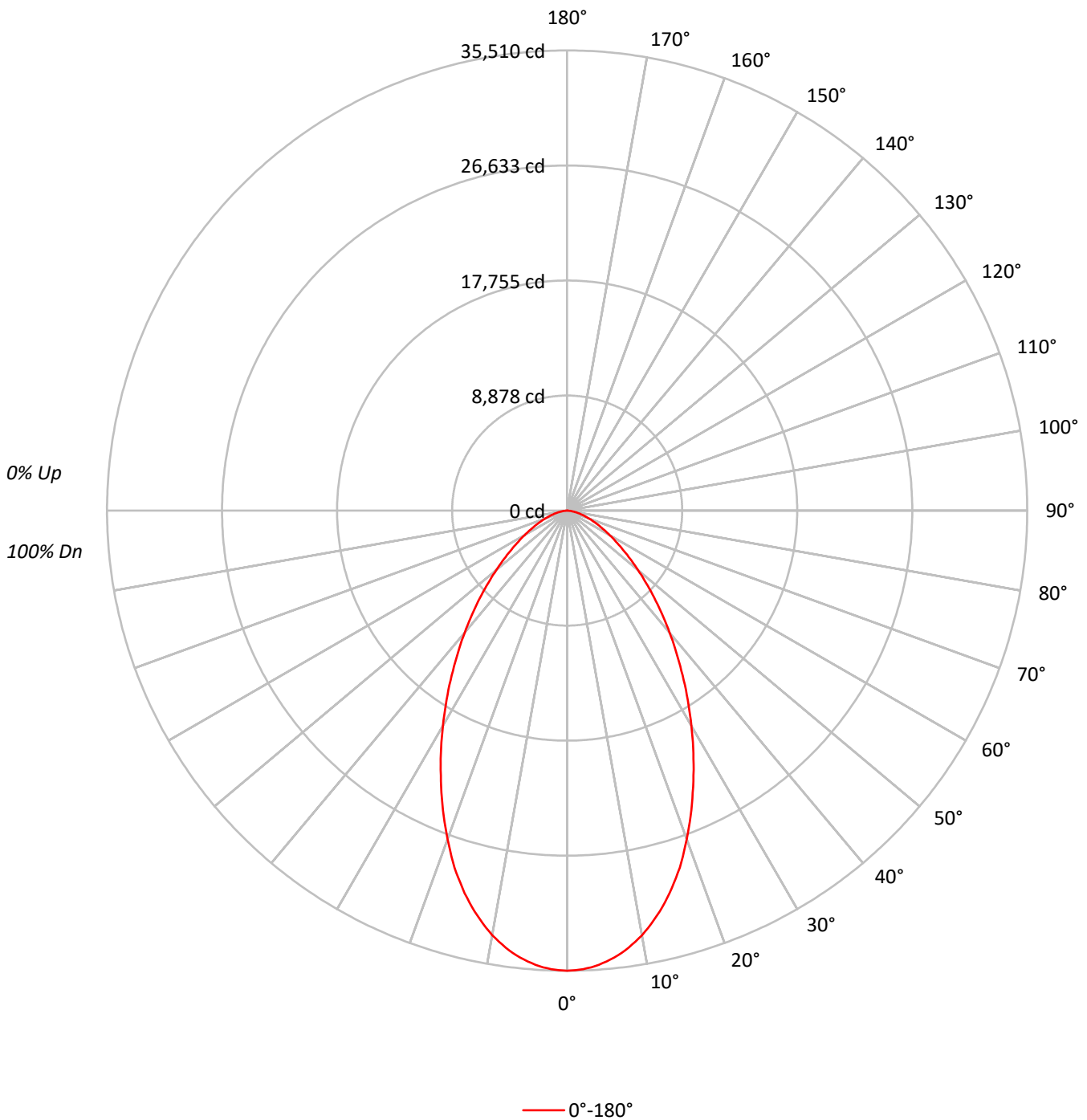
Lumens per Lamp: N/A
Luminaire Lumens: 48318.1 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.97
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 411.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: G2-1902-155-55
CATALOG NUMBER: G8-W-PC-450-6500

Luminous Intensity Polar Plot





TEST NUMBER: G2-1902-155-55

CATALOG NUMBER: G8-W-PC-450-6500

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	317695
5°	313682
10°	302246
15°	283100
20°	256986
25°	227450
30°	198070
35°	169539
40°	143582
45°	120059
50°	99114
55°	81843
60°	67798
65°	56523
70°	46980
75°	38819
80°	29367
85°	16219



TEST NUMBER: G2-1902-155-55

CATALOG NUMBER: G8-W-PC-450-6500

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3281.4	6.8
10°-20°	8526.4	17.6
20°-30°	10568.4	21.9
30°-40°	9720.6	20.1
40°-50°	7356.6	15.2
50°-60°	4747.7	9.8
60°-70°	2683.8	5.6
70°-80°	1205.5	2.5
80°-90°	227.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22376.2	46.3
0°-40°	32096.8	66.4
0°-60°	44201.0	91.5
0°-90°	48318.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48318.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	35510	
5°	34928	###
15°	30565	8526
25°	23041	10568
35°	15523	9721
45°	9489	7357
55°	5247	4748
65°	2670	2684
75°	1123	1205
85°	158	228
90°	0	



TEST NUMBER: G2-1902-155-55

CATALOG NUMBER: G8-W-PC-450-6500

CANDELA DISTRIBUTION (FULL):

0°	
0°	35510
1°	35470
2°	35406
3°	35296
4°	35132
5°	34928
6°	34684
7°	34403
8°	34058
9°	33679
10°	33270
11°	32795
12°	32272
13°	31748
14°	31162
15°	30565
17.5°	28891
20°	26992
22.5°	25028
25°	23041
27.5°	21096
30°	19173
32.5°	17317
35°	15523
37.5°	13859
40°	12294
42.5°	10840
45°	9489
47.5°	8243
50°	7121
52.5°	6130
55°	5247
57.5°	4463
60°	3789
62.5°	3192
65°	2670
67.5°	2211
70°	1796
72.5°	1443
75°	1123
77.5°	827
80°	570
82.5°	340
85°	158
87.5°	55



TEST NUMBER: G2-1902-155-55

CATALOG NUMBER: G8-W-PC-450-6500

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)